

Yikun Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/918446/publications.pdf>

Version: 2024-02-01

48
papers

1,984
citations

218677

26
h-index

243625

44
g-index

48
all docs

48
docs citations

48
times ranked

529
citing authors

#	ARTICLE	IF	CITATIONS
1	Excellent cryogenic magnetocaloric properties in heavy rare-earth based HRENiGa ₂ (HRE = Dy, Ho, or Tm) amorphous alloys. <i>Journal of Materials Science and Technology</i> , 2022, 102, 66-71.	6.3	43
2	Achievement of giant cryogenic refrigerant capacity in quinary rare-earths based high-entropy amorphous alloy. <i>Journal of Materials Science and Technology</i> , 2022, 102, 66-71.	10.7	95
3	Glass forming ability, magnetic properties and cryogenic magnetocaloric effects in RE ₆₀ Co ₂₀ Al ₂₀ (RE = Ho, Er, Tm) amorphous ribbons. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162633.	5.5	5
4	Magnetic properties and giant cryogenic magnetocaloric effect in B-site ordered antiferromagnetic Gd ₂ MgTiO ₆ double perovskite oxide. <i>Acta Materialia</i> , 2022, 226, 117669.	7.9	131
5	Magnetic properties and promising magnetocaloric performances in the antiferromagnetic GdFe ₂ Si ₂ compound. <i>Science China Materials</i> , 2022, 65, 1345-1352.	6.3	116
6	Excellent magnetocaloric performance in the carbide compounds RE ₂ Cr ₂ C ₃ (RE = Er, Ho, and Dy) and their composites. <i>Materials Today Physics</i> , 2022, 27, 100786.	6.0	35
7	Structural, magnetic and magnetocaloric properties of the rare earth (RE) molybdate RE ₂ MoO ₆ (RE = Dy, Ho, Er, Tm) compounds. <i>Journal of Materials Science and Technology</i> , 2022, 102, 66-71.	4.8	25
8	Structure, magnetic properties and cryogenic magneto-caloric effect (MCE) in RE ₂ FeAlO ₆ (RE = Gd, Dy, Er, Ho, Tm) compounds. <i>Journal of Materials Science and Technology</i> , 2022, 102, 66-71.	4.8	105
9	Cryogenic magnetic properties and magnetocaloric effects (MCE) in B-site disordered RE ₂ CuMnO ₆ (RE = Dy, Ho, Er, Tm) compounds. <i>Journal of Materials Science and Technology</i> , 2022, 102, 66-71.	4.8	31
10	First- and second-order phase transitions in RE ₆ Co ₂ Ga (RE = Ho, Dy or Gd) cryogenic magnetocaloric materials. <i>Science China Materials</i> , 2021, 64, 2846-2857.	6.3	62
11	Structural and magnetocaloric properties in the aeschynite type GdCrWO ₆ and ErCrWO ₆ oxides. <i>Ceramics International</i> , 2021, 47, 29197-29204.	4.8	13
12	Magnetic properties, martensitic transformations and magnetocaloric performances in Ni ₄₄ Mn _{45-x} Fe _x Sn ₁₁ (x = 0-3) Heusler alloys. <i>Materials Chemistry and Physics</i> , 2021, 273, 125150.	4.0	7
13	Magnetic properties and promising cryogenic magneto-caloric performances of Gd ₂₀ Ho ₂₀ Tm ₂₀ Cu ₂₀ Ni ₂₀ amorphous ribbons*. <i>Chinese Physics B</i> , 2021, 30, 017501.	1.4	40
14	Magnetic properties and magneto-caloric performances in RECo ₂ B ₂ C (RE = Gd, Tb and Dy) compounds. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152780.	5.5	50
15	Magnetocaloric effect and refrigeration performance in RE ₆₀ Co ₂₀ Ni ₂₀ (RE = Ho and Er) amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166179.	2.3	72
16	Structural, magnetic and magnetocaloric properties in RE ₂ Ni _{1.5} Ga _{2.5} (RE = Dy, Ho, Er and Tm) compounds. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154666.	5.5	16
17	Structural, magnetic properties and magneto-caloric performances in the antiferromagnetic RECoSi ₂ (RE = Er and Tm) compounds. <i>Journal of Alloys and Compounds</i> , 2020, 843, 156016.	5.5	4
18	Magnetic properties, magnetocaloric effect and refrigeration performance in RE ₆₀ Al ₂₀ Ni ₂₀ (RE = Ho, Er and Ho) amorphous ribbons. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	12

#	ARTICLE	IF	CITATIONS
19	Crystal structure, magnetic properties, and magnetocaloric effect in B-site disordered RE ₂ CrMnO ₆ (RE = Tb, Er, Tm, Y) compounds. <i>Journal of Applied Physics</i> , 2019, 125, 174102.	10.784314	39
20	Table-like shape magnetocaloric effect and large refrigerant capacity in dual-phase HoNi ₂ /HoNi ₂ composite*. <i>Chinese Physics B</i> , 2020, 29, 107502.	1.4	7
21	Microstructure and cryogenic magnetic properties in amorphous RE ₅₇ Cu ₂₅ Al ₁₈ (RE = Ho and Tm) ribbons. <i>Journal of Alloys and Compounds</i> , 2019, 770, 849-853.	5.5	38
22	Observation of large magnetocaloric effect in ternary Er-based Er ₄ CoCd compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165462.	2.3	13
23	Giant refrigerant capacity in equi-atomic HoErGdCuNi amorphous ribbons. <i>Journal of Alloys and Compounds</i> , 2019, 792, 180-184.	5.5	8
24	Review of the structural, magnetic and magnetocaloric properties in ternary rare earth RE ₂ T ₂ X type intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2019, 787, 1173-1186.	5.5	222
25	Magnetic Phase Transition and Magnetocaloric Effect in Ternary Er ₂ Ni ₂ Ga Compound. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	2.1	19
26	Metamagnetic transition and magnetocaloric properties in antiferromagnetic Ho ₂ Ni ₂ Ga and Tm ₂ Ni ₂ Ga compounds. <i>Intermetallics</i> , 2018, 94, 17-21.	3.9	46
27	Structure and cryogenic magnetic properties in Ho ₂ BaCuO ₅ cuprate. <i>Ceramics International</i> , 2018, 44, 1991-1994.	4.8	58
28	Cryogenic magnetic properties of Er ₆₀ Ni ₃₀ Co ₁₀ amorphous ribbon. <i>Journal of Non-Crystalline Solids</i> , 2018, 484, 36-39.	3.1	7
29	Continuous Transformations of the Nucleation Mechanism in the Undercooled State. <i>Crystal Growth and Design</i> , 2018, 18, 2905-2911.	3.0	1
30	Structure, glass-forming ability, magnetic and cryogenic magneto-caloric properties in the amorphous Ni ₃₀ Co ₁₀ RE ₆₀ (RE = Ho and Tm) ribbons. <i>Journal of Materials Science</i> , 2018, 53, 9816-9822.	3.7	27
31	Magnetic properties and magnetic entropy change in rare earth-rich aluminium compounds of RE ₂ CuAl ₃ (RE = Dy and Tm). <i>Intermetallics</i> , 2018, 97, 8-11.	3.9	0
32	Low field induced large magnetic entropy change in the amorphous Tm ₆₀ Co ₂₀ Ni ₂₀ ribbon. <i>Journal of Alloys and Compounds</i> , 2018, 733, 40-44.	5.5	57
33	Cryogenic magnetic properties in the pyrochlore RE ₂ TiMnO ₇ (RE = Dy and Ho) compounds. <i>Ceramics International</i> , 2018, 44, 15681-15685.	4.8	10
34	Structure, magnetic and cryogenic magneto-caloric properties in intermetallic gallium compounds RE ₂ Co ₂ Ga (RE = Dy, Ho, Er, and Tm). <i>Journal of Applied Physics</i> , 2018, 124, 043903.	2.5	14
35	Cryogenic magnetic properties and magnetocaloric performance in double perovskite Pr ₂ NiMnO ₆ and Pr ₂ CoMnO ₆ compounds. <i>Ceramics International</i> , 2018, 44, 20762-20767.	4.8	21
36	Magnetism and magnetocaloric effect in the RE ₂ CuSi ₃ (RE = Dy and Ho) compounds. <i>Journal of Alloys and Compounds</i> , 2017, 702, 546-550.	5.5	24

#	ARTICLE	IF	CITATIONS
37	Magnetic properties and magnetocaloric effect in the aluminide RE NiAl ₂ (RE = Ho and Er) compounds. Intermetallics, 2017, 88, 61-64.	3.9	21
38	Magnetic and magnetocaloric properties of the ternary cadmium based intermetallic compounds of Gd ₂ Cu ₂ Cd and Er ₂ Cu ₂ Cd. Journal of Alloys and Compounds, 2017, 692, 665-669.	5.5	63
39	Excellent magnetocaloric properties in RE ₂ Cu ₂ Cd (RE = Dy and Tm) compounds and its composite materials. Scientific Reports, 2016, 6, 34192.	3.3	65
40	Reversible Table-Like Magnetocaloric Effect in EuAuGe Compound. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2159-2163.	1.8	18
41	Magnetocaloric Properties in TbNi ₂ B ₂ C Compound. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2681-2684.	1.8	4
42	Large reversible magnetocaloric effect in RE ₂ Cu ₂ In (RE = Er and Tm) and enhanced refrigerant capacity in its composite materials. Journal Physics D: Applied Physics, 2016, 49, 145002.	2.8	48
43	Study of the magnetic phase transitions and magnetocaloric effect in Dy ₂ Cu ₂ In compound. Journal of Alloys and Compounds, 2016, 667, 130-133.	5.5	46
44	Magnetic properties and magnetocaloric effect in TmZnAl and TmAgAl compounds. Journal of Alloys and Compounds, 2016, 656, 635-639.	5.5	80
45	Giant low field magnetocaloric effect and field-induced metamagnetic transition in TmZn. Applied Physics Letters, 2015, 107, .	3.3	76
46	Magnetic phase transitions and large magnetic entropy change with a wide temperature span in HoZn. Journal of Alloys and Compounds, 2015, 643, 147-151.	5.5	30
47	Magnetic properties and magnetocaloric effect in ternary REAgAl (RE= Er and Ho) intermetallic compounds. Journal of Alloys and Compounds, 2015, 619, 12-15.	5.5	61
48	Effect of Fe substitution on magnetocaloric effect in metamagnetic boron-carbide ErNi ₂ ~xFe _x B ₂ C compounds. Journal of Alloys and Compounds, 2014, 610, 540-543.	5.5	22